

PATENTS ONLY

To The Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kazuhiro MAENO

October 25, 2001

First Assignor

Date of Execution

Eiji Kono

October 25, 2001

Second Assignor

Date of Execution

Third Assignor

Date of Execution

Fourth Assignor

Date of Execution

Fifth Assignor

Date of Execution

Sixth Assignor

Date of Execution

Additional name(s) of conveying party(ies) attached? YES NO

2. Name and address of receiving party(ies):

Name: Kabushiki Kaisha Toyota Jidoshokki

Street Address: 2-1, Toyoda-cho
Kariya-shi

City: Aichi-ken

Country: Japan

ZIP: 448-8671

Additional name(s) & address attached? YES NO

3. Nature of Conveyance (check only one):

 New Assignment Merger License Agreement Security Agreement Change of Name Other: Cross-reference of Assignment filed in United States
Application No. ____/_____, recorded on _____ at
Reel No. _____ and Frame No. _____

4. Identification of Application number(s), patent number(s) OR date of execution of application to which assignment refers:

Application Nos.:

10/019,201

Patent Nos.:

Date application was signed by the first
named executing inventor(Fill-in this date only if assignment is
filed together with a new application)5. Name and address of party to whom correspondence
concerning documents should be mailed:

Name: Michael P. Dunnam
 WOODCOCK WASHBURN LLP
 One Liberty Place - 46th Floor
 Philadelphia, Pennsylvania 19103-7301
 215-568-3100

03/06/2002 UEDUVIJE 00000071 10019201

FC:581

40.00 OP

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

 Enclosed Authorized to be charged to Deposit Account
Number 23-30508. Please charge any deficiency or credit any
overpayment to Deposit Account Number 23-3050

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of
the original document.*

Michael P. Dunnam/32,611

Name of Person Signing/Reg. No.
TIC-0010*Michael P. Dunnam*

Signature

Date

Total number of pages including cover sheet, assignment document and additional pages attached thereto: 4

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
 Box Assignments
 Washington, D.C. 20231

PATENT
Joint Inventors

DOCKET NO.:

(Pending Application;
Serial No. Unknown)

A S S I G N M E N T

WHEREAS, we Kazuhiro MAENO and Eiji KONO

hereinafter referred to as the assignors, residing respectively at
c/o KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, 2-1, Toyoda-cho, Kariya-shi, Aichi-ken, 448-8671, Japan and c/o KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, 2-1, Toyoda-cho, Kariya-shi, Aichi-ken, 448-8671, Japan
are the joint inventors of certain inventions or improvements for which we have made application for Letters Patent to the United States, identified as Case No. _____, entitled _____
SEMICONDUCTOR DEVICE

and

WHEREAS, KABUSHIKI KAISHA TOYOTA JIDOSHOKKI

hereinafter referred to as the assignee, of 2-1, Toyoda-cho, Kariya-shi, Aichi-ken, 448-8671, Japan,
a corporation of Japan, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

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Joint Inventors

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

We further authorize and direct our attorneys to insert below* the serial number and filing date of said application now identified as Case No. @@ as soon as the same shall have been made known to them by the United States Patent Office.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: October 25, 2001

Kazuhiro Maeno _____ (L.S.)

Kazuhiro MAENO

Dated: October 25, 2001

Eiji Kono _____ (L.S.)

Eiji KONO

Dated: _____

_____ (L.S.)

Dated: _____

_____ (L.S.)

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Joint Inventors

*The above assignment covers application Serial No.
10/019,201, filed on December 20, 2001

The above insertion made by me this 28th day of
February, 2002.

Michael P. DeCaro
of WOODCOCK WASHBURN LLP

DOCKET NO.:

PATENT

COMBINED DECLARATION AND POWER OF ATTORNEY

Kazuhiko MAENO and Eiji KONO

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; and

I verily believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: SEMICONDUCTOR DEVICE

the specification of which:

(X) is attached hereto.

() was filed on _____ as Application Serial No. _____ and was amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to the patentability of this application in accordance with 37 CFR § 1.56.

I hereby claim foreign priority benefits under 35 U.S.C. § 119(a-d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of any application on which priority is claimed:

Country	Number	Date Filed	Priority Claimed
Japan	2000-124447	25th/April/2000	YES
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

I hereby claim the benefit under 35 U.S.C. § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 U.S.C. § 112, I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to be material to patentability as defined in 37 CFR § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Filing Date	Status (patented, pending)
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PCT/JP01/03524

24th/April/2001

Pending

I hereby claim the benefit under 35 U.S.C. § 119(e) of any United States provisional application(s) listed below:

Provisional Appln. No.	Filing Date
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: Steven J. Rocci and Michael P. Dunnam, Registration Nos. 30,489 and 32,611 of the firm of WOODCOCK WASHBURN LLP, One Liberty Place - 46th Floor, Philadelphia, Pennsylvania 19103, and

Address all telephone calls and correspondence to:

Michael P. Dunnam, Esq.
WOODCOCK WASHBURN LLP
One Liberty Place - 46th Floor
Philadelphia, PA 19103
Telephone No. 215-568-3100.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name <u>Kazuhiro MAENO</u>		Inventor's Signature <u>Kazuhiro Maeno</u>	Date Oct. 25, 2001
1	Residence <u>Aichi-ken, Japan</u>	Citizenship Japan	<u>JPX</u>
Post Office Address c/o KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, 2-1, Toyoda-cho, Kariya-shi, Aichi-ken, 448-8671, Japan			
Full Name <u>Eiji KONO</u>		Inventor's Signature <u>Eiji Kono</u>	Date Oct. 25, 2001
2	Residence <u>Aichi-ken, Japan</u>	Citizenship Japan	<u>JPX</u>
Post Office Address c/o KABUSHIKI KAISHA TOYOTA JIDOSHOKKI, 2-1, Toyoda-cho, Kariya-shi, Aichi-ken, 448-8671, Japan			
3	Full Name	Inventor's Signature	Date
Residence			
Post Office Address			
4	Full Name	Inventor's Signature	Date
Residence			
Post Office Address			
5	Full Name	Inventor's Signature	Date
Residence			
Post Office Address			